PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY		PCT WIPO				
To: ANTHONY J. JANIUK						
WATERS CORPORATION  34 MAPLE STREET  MILFORD, MA 01757		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
			(PCT Rule 43bis.1)			
·		Date of mailing (day/month/year) 14 JUN 2005				
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below				
AF-389			(day/month/year) Priority date (day/month/year)			
1	International application No. International filing date					
PCT/US05/06670	PCT/US05/06670 02 March 2005 (02.03.2) International Patent Classification (IPC) or both national classification					
1PC(7): F16K 5/00, 25/00, 3 Applicant	31/02 and US Cl.: 251/129.11, 180,	192, 304				
WATERS INVESTMENTS	LIMITED					
77772						
1. This opinion contains indications relating to the following items:						
Box No. I	Basis of the opinion					
Box No. II						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV	Lack of unity of invention					
Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI	Certain documents cited	ments cited				
Box No. VII	Certain defects in the international	mal application				
Box No. VIII	Certain observations on the internat	itional application				
2. FURTHER ACTION	N					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis (b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address o	of the ISA/ US	Authorized offic	# \/_			
Mail Stop PCT, Attn Commissioner for Pa	n: ISA/US	Edward K. Look				
P.O. Box 1450 Alexandria, Virginia		Telephone No. (571) 272-4820				
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Form PCT/ISA/237 (cover sh	Form PCT/ISA/237 (cover sheet) (January 2004)					

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US05/06670	

HUX IVO	. I Basis of this opinion
it was i	egard to the language, this opinion has been established on the basis of the international application in the language in v filed, unless otherwise indicated under this item.
٠, ٢	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With 1 claime	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to d invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
· c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has filed or furnished, the required statements that the information in the subsequent or additional copies is identical to the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addit	ional comments:
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/06670

Box No. V Reasoned statement under Rule applicability; citations and expla	43 bis.1(a)(i) with regard to novelty, inven- mations supporting such statement	itive step or industrial
1. Statement		
Novelty (N)	Claims 1-23	YES
140verty (14)	Claims NONE	NO
Inventive step (IS)	Claims 1-23	YES
MYOMEYO GROP (25)	Claims NONE	NO
Industrial applicability (IA)	Claims 1-23	YES
midustrial applications (121)	Claims NONE	NO
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#### 2. Citations and explanations:

Claims 1-23 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a device for controlling the flow of fluids comprising a rotor having a rotor fluid communication means, a load bearing surface, a stator having a stationary load bearing surface, means to prevent the flow of fluid, a compression means, and at least one of the rotor bearing surface or the stator bearing surface having a diamond like carbon-silica coating.

Claims 1-23 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/06670

### Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 23 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 23 is indefinite for the following reason(s): dependant claim 23 is not written in proper form and the examiner can not ascertain what structure is being referred to that has "more than 2 position".

Form PCT/ISA/237 (Box No. VIII) (January 2004)